2004 Subject/Author Index to THE FUTURIST

Feature Articles, Book Reviews, and World Trends & Forecasts

SUBJECT INDEX

BUSINESS AND ECONOMICS

Business Tomorrow: Dealing with Uncertainty [book review of *Business 2010* by Ian Pearson and Michael Lyons], *Peter F. Eder,* May-June 2004.

The Coming of a Molecular Economy [book review of *It's Alive* by Christopher Meyer and Stan Davis], *Lane Jennings,* January-February 2004.

Scenarios for Going Cashless [box], *David R. Warwick,* July-August 2004.

Toward a Cashless Society, *David R. Warwick,* July-August 2004.

Where to Find 4 Billion New Customers: Expanding the World's Marketplace, *Medard Gabel,* July-August 2004.

COMMUNICATIONS

Better Decision Making: From *Who's* Right to *What's* Right, *Karl Albrecht,* May-June 2004.

Cosmopedia: Tomorrow's World of Learning, *Parker Rossman,* May-June 2004.

The End of Written Language? [book review of *VIVO [Voice-In/Voice-Out]* by William Crossman], *Clifton Coles,* November-December 2004.

Fish Story [box], March-April 2004.

Kanzi: Animal Communication Success Story [box], March-April 2004.

CREATIVE THINKING

Knowledge Creation: The Quest for Questions, *Bruce LaDuke,* January-February 2004.

EDUCATION

High Schools for Futurism: Nurturing the Next Generation, *Arthur B. Shostak,* November-December 2004.

Learning for Ourselves: A New Paradigm for Education, *John C. Lundt,* November-December 2004.

ENVIRONMENT AND RESOURCES

Personalized Energy: The Next Paradigm, *Stephen M. Millett,* July-August 2004.

FUTURES AND FUTURISM

The Art of Foresight: Preparing for a Changing World, *World Future Society staff,* May-June 2004.

Fiction and the Future: Gripes, Gibes, and Conjectures [book review of *Envisioning the Future* edited by Marleen S. Barr], *Lane Jennings,* March-April 2004.

Five Meta-Trends Changing the World, *David Pearce Snyder,* July-August 2004.

How Futurism Conquers Evil [interview], *Wendell Bell,* March-April 2004.

Perspectives of a Pioneering Futurist [book review of *Futuring* by Edward Cornish], *Wendell Bell,* November-December 2004.

Tools for Better Global Thinking [book review of *2004 State of the Future* by Jerome C. Glenn and Theodore J. Gordon], *Lane Jennings,* November-December 2004.

What If You Could Be Instantly Smarter? A Thought Experiment, *Daniel Rigney,* March-April 2004.

GOVERNANCE

Intelligent Government: Invisible, Automatic, and Everywhere, *Marcel Bullinga,* July-August 2004.

HABITATS

A City Listens: Structured Inquiry for Choosing the World Trade Center Memorial [box], May-June 2004.

A Day in the Life of a Self-Sufficient Home [box], *Mel Moench,* May-June 2004.

The Rise of Telecities: Decentralizing the Global Society, *Joseph N. Pelton,* January-February 2004.

Self-Sufficient Homes, *Mel Moench,* May-June 2004.

HEALTH AND MEDICINE

Battling Global Obesity [box], *Art Siemering,* May-June 2004.

The New Brain, *Richard Restak,* January-February 2004.

LIFESTYLES

Cooking Globally, Eating Whenever: The Future of Dining, *Art Siemering,* May-June 2004.

Reinventing Sex: New Technologies and Changing Attitudes, *Eric Garland,* November-December 2004.

The Transformation of Marriage, *Stephen Bertman,* March-April 2004.

PEOPLE

Enabling the Disabled to Serve [profile of Clay Aiken], *Cynthia G. Wagner,* September-October 2004.

Learning to Look Up [interview with Neil deGrasse Tyson], *Cynthia G. Wagner,* November-December 2004.

SCIENCE AND TECHNOLOGY

Building with Nanoblocks [box], *Mike Treder,* January-February 2004.

E-Commerce Technology Timeline [box], *William E. Halal,* March-April 2004.

Forecasts for Artificial Intelligence, *Bohumir Stedron,* March-April 2004.

The Intelligent Internet: The Promise of Smart Computers and E-Commerce, *William E. Halal,* March-April 2004.

Molecular Nanotech: Benefits and Risks, *Mike Treder,* January-February 2004.

Nano-organisms: Are They Real? [box], January-February 2004.

Our Microtech Future, *William Holmes,* September-October 2004.

Reassessing Risk Assessment, *Douglas Mulhall,* January-February 2004.

SOCIETY AND VALUES

America's Increasing Diversity [box], *Nat Irvin II,* March-April 2004.

Anything to Get Ahead: The New American Norm? [book review of *The Cheating Culture* by David Callahan], *Lane Jennings,* September-October 2004.

The Arrival of the Thrivals, *Nat Irvin II,* March-April 2004.

A Brief History of Evil [box], *Wendell Bell,* March-April 2004.

Doctor Dolittle for Real? Raising Questions About Interspecies Communications, *Bruce Lloyd and Susan Clayton,* March-April 2004.

Humanity's Common Values: Seeking a Positive Future, *Wendell Bell,* September-October 2004.

Ignoracism [box], *Nat Irvin II,* March-April 2004.

Letters to Unborn Daughters: Exploring the Implications of Genetic Engineering, *Sarah Stephen,* March-April 2004.

A New World View Struggles to Emerge, *Richard Eckersley,* September-October 2004.

The Threat of Thearchy, *Arnold Brown,* September-October 2004.

To Enhance, or Not to Enhance, *Lane Jennings,* March-April 2004.

Who Is Really Evil? *Wendell Bell,* March-April 2004.

WORK

Aging and Retirement Trends: Causes and Objectives [box], September-October 2004.

How to Succeed in the Hyper-Human Economy, *Richard W. Samson,* September-October 2004.

Reshaping Retirement: Scenarios and Options, *Michael Moynagh and Richard Worsley,* September-October 2004.

Transitioning to the Hyper-Human Economy [box], September-October 2004.

WORLD AFFAIRS

Forces Underlying Globalization [box], January-February 2004.

Wanted: A New Strategy for Globalization, *J. Ørstrøm Møller,* January-February 2004.

WORLD FUTURE SOCIETY

Creating a More Intelligent Future, *Cynthia G. Wagner,* November-December 2004.

Outlook 2005, *World Future Society staff,* November-December 2004.

BOOKS REVIEWED

Business 2010: Mapping the New Commercial Landscape, *Ian Pearson and Michael Lyons* [reviewed by Peter F. Eder], May-June 2004.

The Cheating Culture: Why More Americans Are Doing Wrong to Get Ahead, *David Callahan* [reviewed by Lane Jennings], September-October 2004.

Envisioning the Future: Science Fiction and the Next Millennium *Marleen S. Barr (editor)* [reviewed by Lane Jennings], March-April 2004.

Futuring: The Exploration of the Future, *Edward Cornish* [reviewed by Wendell Bell], November-December 2004.

The Hothouse Effect: Intensify Creativity in Your Organization Using Secrets from History's Most Innovative Communities, *Barton Kunstler* [reviewed by Lane Jennings], July-August 2004.

It's Alive: The Coming Convergence of Information, Biology, and Business, *Christopher Meyer and Stan Davis* [reviewed by Lane Jennings], January-February 2004.

Planetary Citizenship: Your Values, Beliefs and Actions Can Shape a Sustainable World, *Hazel Henderson and Daisaku Ikeda,* September-October 2004.

2004 State of the Future, *Jerome C. Glenn and Theodore J. Gordon* [reviewed by Lane Jennings], November-December 2004.

VIVO [Voice-In/Voice-Out]: The Coming Age of Talking Computers, *William Crossman* [reviewed by Clifton Coles], November-December 2004.

WORLD TRENDS & FORECASTS

[Written by staff editors ***Clifton Coles, Lane Jennings,*** *and* ***Cynthia G. Wagner,*** *except where noted.]*

DEMOGRAPHY

Breast-Feeding and Breast Cancer, November-December 2004.

Bringing Violence Under Control, May-June 2004.

Eliminating Iodine Deficiencies, September-October 2004.

Europe's Cancer Gap, January-February 2004.

The Graying of Latin America, March-April 2004.

Health and Happiness, January-February 2004.

India's Disappearing Females, March-April 2004.

Learning More about Women's Health, September-October 2004.

Marriage and the Educated Woman, July-August 2004.

Measuring People's Well-Being, January-February 2004.

Nations at Risk for Violent Conflict, July-August 2004.

Trends Halting Population Growth, September-October 2004.

Women in War, November-December 2004.

The World Responds to Rotavirus, November-December 2004.

Youth Programs Vital for Adult Success, May-June 2004.

ECONOMICS

Advertising's New Frontiers, July-August 2004.

Are Consultants Killing Creativity? November-December 2004.

Beauty Business Booms, September-October 2004.

Businesses Thrive on Transparency, May-June 2004.

Challenge Ahead for Detroit Automakers, May-June 2004.

Data Box: China and India by the Numbers [box], July-August 2004.

Fear and Loathing in the Virtual Workforce, March-April 2004.

Global Demand for Fish Outstrips Supplies, January-February 2004.

Global Wage Gap Is Closing, March-April 2004.

New Respect for Middle Managers, January-February 2004.

Prospects for the "Dragon" and the Tiger," *Marvin J. Cetron,* July-August 2004.

Speeding Up Experiments, January-February 2004.

Waking Up to the Senior Worker, May-June 2004.

Workforce "Perk" Barometer, September-October 2004.

ENVIRONMENT

Amateurs Join Experts to Save Wildlife, July-August 2004.

Arctic Carbon May Speed Global Warming, September-October 2004.

Blackout's Benefits, September-October 2004.

Britain's Disappearing Birds, March-April 2004.

Climate Threatens Mass Extinctions, July-August 2004.

Domesticated Trees May Save Forests, September-October 2004.

The End of Oil, July-August 2004.

Farming Subsidies Threaten the Environment, May-June 2004.

Fight Fire with Film Forecast, January-February 2004.

Hotter Heat Waves Foreseen, November-December 2004.

Indoor Air Pollution Is Worse Than Ever, January-February 2004.

Invasion of the Super Rats, November-December 2004.

Locating Oil Spill Sources, March-April 2004.

Marine Mapping and Monitoring, May-June 2004.

Modifying the Weather to Combat Drought, March-April 2004.

More Trouble for Coral Reefs, January-February 2004.

Predicting Beach Erosion, September-October 2004.

Saving Nature's Medicine Chest, March-April 2004.

GOVERNMENT

Bioforensic Standards, May-June 2004.

Fighting the Sahara, May-June 2004.

Forming a Global Authority, *Amitai Etzioni,* November-December 2004.

Hungary's Turbulent Transformation to Capitalism, *Magdolna Csath,* September-October 2004.

Hype, Spin, Puffery, and Lies: Should We Be Scared? January-February 2004.

Keeping Leaders Up on Technology and Science, May-June 2004.

Keeping Scientists in Argentina, May-June 2004.

Measuring the Progress of Peace, January-February 2004.

Models for Global Governance, March-April 2004.

Political Passivity among the Jobless, July-August 2004.

Preventing Genocide, July-August 2004.

Renewing Cities and Suburbs, January-February 2004.

Water Without War, March-April 2004.

SOCIETY

Adulthood Grows More Elusive, November-December 2004.

Aggression and Violent Media, July-August 2004.

Baby Boomers' New Retirement Ideas, July-August 2004.

The Future of the Smile, September-October 2004.

How Do Knowledge Societies Measure Up? May-June 2004.

Internet Adds Spice to Marriage and Monogamy, July-August 2004.

Keeping Science's Best and Brightest On the Job, November-December 2004.

Mini-Moms, September-October 2004.

Odd Working Hours Cause Family Stress, May-June 2004.

Reexamining Intimacy, March-April 2004.

Religious Upsurge in Vietnam, March-April 2004.

Resources for Peace, January-February 2004.

Saving Our Voices, March-April 2004.

Sibling Violence Leads to Violent Dating, September-October 2004.

The World Responds to Aging, July-August 2004.

TECHNOLOGY

AI Helps Keep Seniors Mobile, September-October 2004.

Binocular Telescope Puts Heavens in Focus, March-April 2004.

Biosensors for Underwear, January-February 2004.

Digital Cinema: A Breakthrough? July-August 2004.

Grow Your Own Teeth, September-October 2004.

Humanoid Robots: Functional and Fun, January-February 2004.

The Military's Wireless Future, *Trace Gunsch,* November-December 2004.

Nanoguitar Is Music to Engineers' Ears, March-April 2004.

Nanotech vs. Biohazards, March-April 2004.

Robots and Sensors Help Make Seniors Mobile, May-June 2004.

Protecting National Borders, July-August 2004.

Smart Homes for Elderly [box], May-June 2004.

Underground Trains Across America? May-June 2004.

"Virtual Womb" Will Help Prevent Premature Births, July-August 2004.

Weeds as Medicines, September-October 2004.

AUTHORS

Albrecht, Karl, *Better Decision Making: From Who's Right to What's Right,* May-June 2004.

Bell, Wendell, *Perspectives of a Pioneering Futurist* [book review of *Futuring* by Edward Cornish], November-December 2004; *Humanity's Common Values: Seeking a Positive Future,* September-October 2004; *Who Is Really Evil?* March-April 2004; *A Brief History of Evil* [box], March-April 2004; *How Futurism Conquers Evil* [interview], March-April 2004.

Bertman, Stephen, *The Transformation of Marriage,* March-April 2004.

Brown, Arnold, *The Threat of Thearchy,* September-October 2004.

Bullinga, Marcel, *Intelligent Government: Invisible, Automatic, and Everywhere,* July-August 2004.

Clayton, Susan, and Bruce Lloyd, *Doctor Dolittle for Real? Raising Questions About Interspecies Communications,* March-April 2004.

Coles, Clifton, *The End of Written Language?* [book review of *VIVO [Voice-In/Voice-Out]* by William Crossman], November-

Statement required by the Act of August 21, 1970, Section 3685, Title 39, United States Code, showing the ownership, management, and circulation of THE FUTURIST.

Office of publication: 7910 Woodmont Avenue, Suite 450, Bethesda, Maryland 20814-3032 (Montgomery County).

Publisher: World Future Society, 7910 Woodmont Avenue, Suite 450, Bethesda, Maryland 20814.

Editor: Edward Cornish, 7910 Woodmont Avenue, Suite 450, Bethesda, Maryland 20814.

Owner: World Future Society (a nonprofit corporation with no stockholders).

Known bondholders, mortgagees, and other security holders owning or holding 1% or more of the total amount of bonds, mortgages, or other securities: None.

	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date (Sept.-Oct. 2004)
A. Total No. Copies Printed	23,529	22,263
B. Paid Circulation		
1. Sales Through Dealers and Carriers, Street Vendors & Counter Sales	1,975	1,825
2. Mail Subscription	15,037	14,131
3. Other classes mailed through USPS	526	359
C. Total Paid Circulation	17,538	16,315
D. Free Distribution by Mail, Carrier, or Other Means, Samples, Complimentary, and Other Free Copies	1,319	1,396
E. Total Distribution	18,857	17,711
F. Copies Not Distributed	4,672	4,552
G. Total	23,529	22,263

I certify that the statements made above by me are correct and complete. —Jefferson Cornish, Business Manager.

December 2004.

Csath, Magdolna, *Hungary's Turbulent Transformation to Capitalism* [World Trends & Forecasts], September-October 2004.

Eckersley, Richard, *A New World View Struggles to Emerge,* September-October 2004.

Eder, Peter F., *Business Tomorrow: Dealing with Uncertainty* [book review of *Business 2010* by Ian Pearson and Michael Lyons], May-June 2004.

Etzioni, Amitai, *Forming a Global Authority* [World Trends & Forecasts], November-December 2004.

Gabel, Medard, *Where to Find 4 Billion New Customers: Expanding the World's Marketplace,* July-August 2004.

Garland, Eric, *Reinventing Sex: New Technologies and Changing Attitudes,* November-December 2004.

Gunsch, Trace, *The Military's Wireless Future* [World Trends & Forecasts], November-December 2004.

Halal, William E., *The Intelligent Internet: The Promise of Smart Computers and E-Commerce,* March-April 2004; *E-Commerce Technology Timeline* [box], March-April 2004.

Holmes, William, *Our Microtech Future,* September-October 2004.

Irvin, Nat, II, *The Arrival of the Thrivals,* March-April 2004; *America's Increasing Diversity* [box], March-April 2004; *Ignoracism* [box], March-April 2004.

Jennings, Lane, *Tools for Better Global Thinking* [book review of *2004 State of the Future* by Jerome C. Glenn and Theodore J. Gordon], November-December 2004; *Anything to Get Ahead: The New American Norm?* [book review of *The Cheating Culture* by David Callahan], September-October 2004; *Fiction and the Future: Gripes, Gibes, and Conjectures* [book review of *Envisioning the Future* edited by Marleen S. Barr], March-April 2004; *To Enhance, or Not to Enhance,* March-April 2004; *The Coming of a Molecular Economy* [book review of *It's Alive* by Christopher Meyer and Stan Davis], January-February 2004.

LaDuke, Bruce, *Knowledge Creation: The Quest for Questions,* January-February 2004.

Lloyd, Bruce, and Susan Clayton, *Doctor Dolittle for Real? Raising Questions About Interspecies Communications,* March-April 2004.

Lundt, John C., *Learning for Ourselves: A New Paradigm for Education,* November-December 2004.

Millett, Stephen M., *Personalized Energy: The Next Paradigm,* July-August 2004.

Moench, Mel, *Self-Sufficient Homes,* May-June 2004; *A Day in the Life of a Self-Sufficient Home* [box], May-June 2004.

Møller, J. Ørstrøm, *Wanted: A New Strategy for Globalization,* January-February 2004.

Moynagh, Michael, and Richard Worsley, *Reshaping Retirement: Scenarios and Options,* September-October 2004.

Mulhall, Douglas, *Reassessing Risk Assessment,* January-February 2004.

Pelton, Joseph N., *The Rise of Telecities: Decentralizing the Global Society,* January-February 2004.

Restak, Richard, *The New Brain,* January-February 2004.

Rigney, Daniel, *What If You Could Be Instantly Smarter? A Thought Experiment,* March-April 2004.

Rossman, Parker, *Cosmopedia: Tomorrow's World of Learning,* May-June 2004.

Samson, Richard W., *How to Succeed in the Hyper-Human Economy,* September-October 2004.

Shostak, Arthur B., *High Schools for Futurism: Nurturing the Next Generation,* November-December 2004.

Siemering, Art, *Cooking Globally, Eating Whenever: The Future of Dining,* May-June 2004; *Battling Global Obesity* [box], May-June 2004.

Snyder, David Pearce, *Five Meta-Trends Changing the World,* July-August 2004.

Stedron, Bohumir, *Forecasts for Artificial Intelligence,* March-April 2004.

Stephen, Sarah, *Letters to Unborn Daughters: Exploring the Implications of Genetic Engineering,* March-April 2004.

Treder, Mike, *Molecular Nanotech: Benefits and Risks,* January-February 2004; *Building with Nanoblocks* [box], January-February 2004.

Wagner, Cynthia G., *Learning to Look Up* [interview with Neil deGrasse Tyson], November-December 2004; *Creating a More Intelligent Future,* November-December 2004; *Enabling the Disabled to Serve* [profile of Clay Aiken], September-October 2004.

Warwick, David R., *Toward a Cashless Society,* July-August 2004.

World Future Society staff, *Outlook 2005,* November-December 2004; *The Art of Foresight: Preparing for a Changing World,* May-June 2004.

Worsley, Richard, and Michael Moynagh, *Reshaping Retirement: Scenarios and Options,* September-October 2004.

Back Issues of THE FUTURIST

November-December 2004 (Vol. 38, No. 6)

Learning for Ourselves • High Schools for Futurism • Reinventing Sex • Creating a More Intelligent Future • Learning to Look Up • Outlook 2005

September-October 2004 (Vol. 38, No. 5)

A New World View Struggles to Emerge • The Threat of Thearchy • Humanity's Common Values: Seeking a Positive Future • How to Succeed in the Hyper-Human Economy • Reshaping Retirement • Our Microtech Future • Enabling the Disabled to Serve

July-August 2004 (Vol. 38, No. 4)

Five Meta-Trends Changing the World • Where to Find 4 Billion New Customers: Expanding the World's Marketplace • Intelligent Government: Invisible, Automatic, and Everywhere • Toward a Cashless Society • Personalized Energy: The Next Paradigm

May-June 2004 (Vol. 38, No. 3)

Better Decision Making • Cosmopedia: Tomorrow's World of Learning • The Art of Foresight • SelfSufficient Homes • Cooking Globally, Eating Whenever: The Future of Dining

March-April 2004 (Vol. 38, No. 2)

The Arrival of the Thrivals • Forecasts for Artificial Intelligence • The Intelligent Internet • What If You Could Be Instantly Smarter? A Thought Experiment • Letters to Unborn Daughters: Exploring the Implications of Genetic Engineering • Doctor Dolittle for Real? Raising Questions About Interspecies Communications • The Transformation of Marriage • Who Is Really Evil? • To Enhance, or Not to Enhance

January-February 2004 (Vol. 38, No. 1)

Wanted: A New Strategy for Globalization • The Rise of Telecities: Decentralizing the Global Society • The New Brain • Reassessing Risk Assessment • Molecular Nanotech: Benefits and Risks • Knowledge Creation: The Quest for Questions

Back issues are $4.95 plus shipping. Discount for multiple copies (mixed titles): 5-9 copies: $4.50 each; 10-19 copies: $4.20 each. (Availability of some issues may be limited.)

To order, call 1-800-989-8274 (weekdays 9 a.m. to 5 p.m. Eastern Time) or use secure online order form, https://www.wfs.org/bkissueonline.htm